

Output Power Rating		Prime			Standby	
rpm	Frequency	Voltage	kVa	Kw	Kva	Kw
1500	50Hz	400	800	640	900	720
1800	60Hz	480	844	675	938	750

Switch able speed 1500/1800 rpm

the above KW rating are at 0.8 pf

Guaranteed within condition equivalent to those specification in ISO 8528-1,ISO 3046-1 and BS 5514-1.

* Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an Average load factor of 80% of the prime rating over each 24 hours period.

Note: That a 10% overload is available for 1 hour in every 12 hours operation

** Standby power rating of the generating set is where a variable load limited to an annual usage up to 600 hours is applied, with 300 hours of which may be continuous running. Note that no overload is permitted.

Engine Technical Data

Engine Make And Model	PERKINS 4006-23TAG3A
Cylinders	6 Vertical in-line
Aspiration	Turbocharged and Air-to-Air charge cooled
Combustion System	Direct injection
Displacement	22.92 liters
Governor	Heinzmann Digital Governor
Emissions Regulations	TA Luft (1986)
Electrical Starting System	24 volt starter motor, 24 volt 70 amp battery charging alternator with integral voltage regulator and activating switch

Air System

Air Filter Type	Paper Element (Replaceable)	
Combustion Air Flow Cm ³ /min(cfm)	50 Hz	60 Hz
	69 (2436.71)	76 (2683.91)
	73 (2577.97)	78 (2754.54)
Max air filter intake restriction	3.7 kpa	3.7 kpa

Fuel System

Fuel Filter Type	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	212 (194)	230 (224)
	Prime Power	210 (172)	226 (200)
	75% of Prime Power	210 (130)	214 (144)
	50% of Prime Power	213 (90)	205 (96)
Fuel Tank Capacity: Open / Close	1800L/1800L		

Lubrication System

Lube Oil	15W40 to API CG4
Lube Oil Capacity	113.4 liters
Oil Pan	113.4 liters
Oil Filter Type	Oil cooler with separate filter header
Oil Cooling Method	Wet sump with filler and dipstick

Cooling System

Coolant Capacity	105 liters	
Cooling System	Twin thermostats, water pump / water cooled	
Cooling Fan Air Flow m ³ /min (cfm)	System designed for ambient up to 35°C or 50°C	
Heat Radiation to Room	50 Hz	60 Hz
	Prime 77kw	80 kw
	Standby 86 kw	90 kw

Exhaust System

Silencer	Grade	Industrial	
	Size	6~	
	Qty	2	
Exhaust Gas Flow m ³ /min (cfm)	Prime	193 (6815.73)	209 (7380.76)
	Standby	193 (6815.73)	209 (7380.76)
Max Allowable Backpressure	6 kpa	6 kpa	
Exhaust Gas Max Temp	50 Hz	60 Hz	
	Prime 500 °c	500 °c	
	Standby 500 °c	500 °c	

Alternator Technical Data Stamford / or LS

Model Number	Leroy Somer LSA 49.1 M75						
No. of Poles	4						
Number of Terminals (leads)	6						
A.V.R & Excitation	R448						
Regulation	±0.5%						
Ingress Protection	IP-23						
Insulation Class	H						
Total harmonic TGH/THC	at No load <4%, on load <4%						
TIF	<50						
Cooling Air Flow-@50 Hzm ³ /min (fcm)	60 (2118.88)						
Cooling Air Flow-@60 Hzm ³ /min (fcm)	72 (2542.65)						

Output Voltage	50 Hz			60 Hz			
V	380	400	415	380	416	440	480
KVA	775	800	775	866	936	960	960
KW	620	640	620	693	749	768	768

Alternator Performance Data

Reactance (f.l.c.l.F)	Xd %	—	33.2	—	—	—	—	—	—	332
	Xd %	—	16.2	—	—	—	—	—	—	16.2
	Xd %	—	12.9	—	—	—	—	—	—	12.9
Motor Starting Capability on 30% voltage dip and 0.8 PF (KVA)	Based	—	2048	—	—	—	—	—	—	2397.6

Controller features DSE

Controller Make and Model	Auto mains failure (AMF) applications including remote communication, user configuration and complete gen-set monitoring and protection, ready for generators with 3 ph 4 wire/3 ph 3 wire/ mono ph						
Engine Protections	oil pressure			fuel level optional			
Generator Protections	coolant temperature			coolant level optional			
	over/under voltage		over under frequency		over current		
Inputs and Outputs	over/under frequency			phases sequence			
	3 No`'s configuration analog inputs			6 No`'s binary outputs			
Event and Performance Log	4 No`'s binary inputs			charging alternator fault			
	Gen-set text alarm log			Engine hours history log			
	for more features we can use higher controller						

Gen-set Enclosure Specification (Optional)

Enclosure Type	Acoustic and Weather Proof						
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet						
Access Doors	6						
Drainage	Fuel & Water Drainage Provision						
Transportation	Tested Single Point Lifting Facility & Forklift Pockets						
Noise Level (@ Free Field Conditions)	77dBA@7 meter						
Water Fill	Radiator Water Filling Provision						
Cable Access	Cable Inlet and Outlet Provision						
Emergency Stop	External Emergency Push Button						
Canopy RAL Color	RAL 2000						
Chassis RAL Color	RAL 9011						

Shipping Data

Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
open	4300	1750	2200	6300
Enclosed	6000	2440	2590	9300